

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region III - 6th & Walnut Sts.  
Philadelphia, Pa. 19106

SUBJECT: Llangollen Landfill - Delaware

DATE: January 12, 1977

FROM: Paul E. Ambrose, Chief  
Delmarva-DC Section

3EN21

TO: Larry Miller, Chief  
Water Quality Monitoring Office

3SA60

ORIGINAL  
(Red)

As per our meeting January 10, 1977, regarding testing Requirements of the surface water discharges from Llangollen Landfill Recovery Waters by Annapolis Lab, please arrange to test the effluent and establish the flow from Recovery Wells 31, 28 and RW5. These 3 wells should give us a fairly representative story of what type of pollutants are present in the 10 discharge wells or points. Then by comparing these with the wells to be sampled for the Water Supply Branch, which I understand are in the same aquifer as the Recovery Wells, we should be able to establish the type and degree of pollutants coming from the Landfill.

It is my understanding that this sampling for both divisions will be done concurrently and this information be made available to both. In addition please continue working with the State of Delaware, as you have done in the past in splitting of samples etc. If they issue a permit this information would be of aid to them.

As per our discussion, will you qualify and quantify the significant pollutants as:

1. Organic Materials

Please use a G.C./M.S. Scan for initial work and quantify by Gas Chromatography of those organics that are identified. Special attention should be focused on identifying the Toxic Materials.

2. Heavy Metals

Examination for the following should be made: Arsenic, Total Chromium, Lead, Mercury, Iron, Selenium

3. Other Items

The following should be checked: Cyanide, Phenolics, Oil and Grease, B.O.D<sub>5</sub>, Ammonia as Nitrogen.

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The Staff people should use their discretion in choice of Wells to be sampled. If, on observing the site and with their expertise, they feel that alternate wells would provide a better story of the quality of the discharge, they should so modify the above request. Also, if they believe other parameters should be sampled, please arrange to do so. Finally, if it is impractical to sample some parameters as oil and grease, they can be deleted. Our main objective is to define the quality of the discharge waters and to identify potential toxic pollutants.

cc: S. Wassersug  
P. Laskow  
J. Manwaring

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